
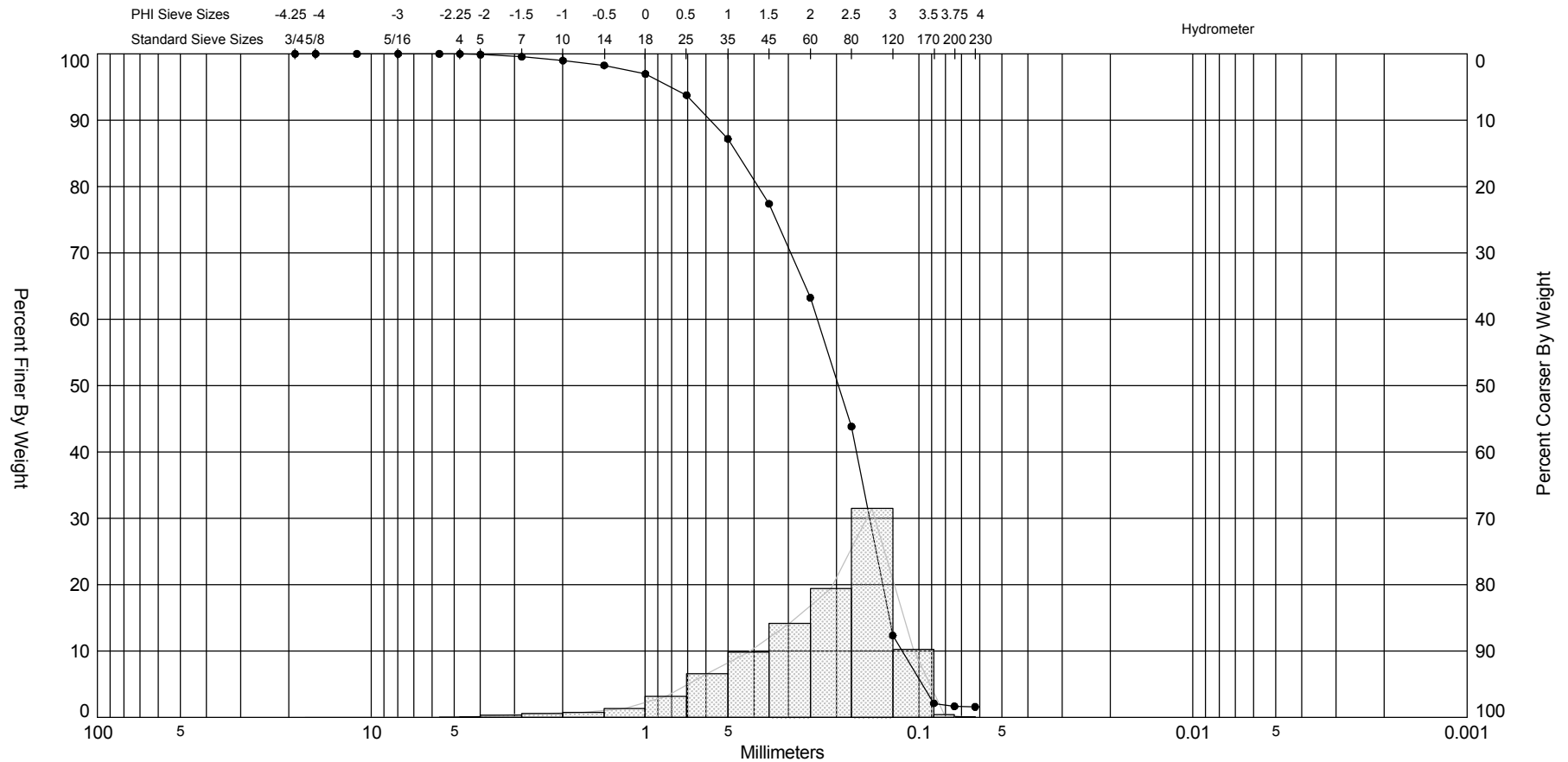



|  |                  |   |                 |   |                     |                      |                 |
|--|------------------|---|-----------------|---|---------------------|----------------------|-----------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                  |   |                 | <br>Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |                     |                      |                 |
| Project Name: 2007 Sand Search Investigation                                   |                  |   |                 |   |                     |                      |                 |
| Sample Name: TPVC-07-20 #7   |                  |   |                 |   |                     |                      |                 |
| Analysis Date: 02-01-07  |                  |   |                 |   |                     |                      |                 |
| Analyzed By: au  |                  |   |                 |   |                     |                      |                 |
| Easting (ft):  |                  | Northing (ft):  |                 | Coordinate System:  |                     | Elevation (ft):      |                 |
| 972,737  |                  | 833,222   |                 | Florida State Plane East  |                     | -35.7 NAVD 88        |                 |
| USCS:  |                  | Munsell:  |                 | Comments:   |                     |                      |                 |
| SW   |                  | Wet - 2.5Y-5/1<br>Dry - 2.5Y-5/1<br>Washed - 2.5Y-5/1 |                 |   |                     |                      |                 |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):                                     | Sieve Loss (%): | Fines (%):  | Organics (%):       | Carbonates (%):      | Shell Hash (%): |
| 87.07  | 85.79            | 0.02  | 0.08            | #200 - 1.67<br>#230 - 1.58  |                     | 40.00                | 0               |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters)                              | Grams Retained  | % Weight Retained   | Cum. Grams Retained | C. % Weight Retained |                 |
| 3/4  | -4.25            | 19.03   | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 5/8  | -4.00            | 16.00   | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 7/16   | -3.50            | 11.31   | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 5/16   | -3.00            | 8.00  | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 3.5  | -2.50            | 5.66  | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 4  | -2.25            | 4.76  | 0.01            | 0.01  | 0.01                | 0.01                 |                 |
| 5  | -2.00            | 4.00  | 0.09            | 0.10  | 0.10                | 0.11                 |                 |
| 7  | -1.50            | 2.83  | 0.28            | 0.32  | 0.38                | 0.43                 |                 |
| 10   | -1.00            | 2.00  | 0.51            | 0.59  | 0.89                | 1.02                 |                 |
| 14   | -0.50            | 1.41  | 0.62            | 0.71  | 1.51                | 1.73                 |                 |
| 18   | 0.00             | 1.00  | 1.13            | 1.30  | 2.64                | 3.03                 |                 |
| 25   | 0.50             | 0.71  | 2.78            | 3.19  | 5.42                | 6.22                 |                 |
| 35   | 1.00             | 0.50  | 5.73            | 6.58  | 11.15               | 12.80                |                 |
| 45   | 1.50             | 0.35  | 8.53            | 9.80  | 19.68               | 22.60                |                 |
| 60   | 2.00             | 0.25  | 12.33           | 14.16   | 32.01               | 36.76                |                 |
| 80   | 2.50             | 0.18  | 16.90           | 19.41   | 48.91               | 56.17                |                 |
| 120  | 3.00             | 0.13  | 27.41           | 31.48   | 76.32               | 87.65                |                 |
| 170  | 3.50             | 0.09  | 8.91            | 10.23   | 85.23               | 97.88                |                 |
| 200  | 3.75             | 0.07  | 0.39            | 0.45  | 85.62               | 98.33                |                 |
| 230  | 4.00             | 0.06  | 0.08            | 0.09  | 85.70               | 98.42                |                 |
|  |                  |   |                 |   |                     |                      |                 |
| Phi 5  | Phi 16           | Phi 25  | Phi 50          | Phi 75  | Phi 84              | Phi 95               |                 |
| 3.36   | 2.94             | 2.80  | 2.34            | 1.58  | 1.16                | 0.31                 |                 |
| Moment   | Mean Phi         | Mean mm   | Sorting         | Skewness  | Kurtosis            |                      |                 |
| Statistics   | 2.09             | 0.23  | 0.94            | -1.19   | 4.67                |                      |                 |

SIEVE ANALYSIS TOPB\_VC\_07.GPJ FL DEP ROSS.GDT 5/10/07



| Gravel |      | Sand   |        |      | Silt and Clay |
|--------|------|--------|--------|------|---------------|
| Coarse | Fine | Coarse | Medium | Fine |               |

| Sample  | Symbol | Elev. (ft) | USCS | % Fines                    | % Organics | % Carbonates   | Median | Mean | Skew  | Kurt | Sort | Sample Information |                                |
|---|--------|------------|------|----------------------------|------------|--|--------|------|-------|------|------|--------------------|--------------------------------|
| TPVC-07-20 #7   | —●—    | -35.7      | SW   | #200 - 1.67<br>#230 - 1.58 |            | 40.00  | 2.34   | 2.09 | -1.19 | 4.67 | 0.94 | Project Name:      | 2007 Sand Search Investigation |
| Comments:   |        |            |      |                            |            |  |        |      |       |      |      | Analysis Date:     | 02-01-07                       |
| Depths and elevations based on measured values                                      |        |            |      |                            |            |  |        |      |       |      |      | Analyzed By:       | au                             |
|  |        |            |      |                            |            | Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |        |      |       |      |      | Easting (X, ft):   | 972,737                        |
|   |        |            |      |                            |            |  |        |      |       |      |      | Northing (Y, ft):  | 833,222                        |
|   |        |            |      |                            |            |  |        |      |       |      |      | Horizontal System: | NAD 1983                       |
|   |        |            |      |                            |            |  |        |      |       |      |      | Vertical System:   | NAVD 88                        |